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of

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10/708,356

2/26/2004

Hurd, Ralph E.

2862

Unknown

GEMS8081.187

[illegible][illegible]

**Examiner
Signature**

Date
Considered

3 / 2405

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	10/708,356	
			Filing Date	2/26/2004	
			First Named Inventor	Hurd, Ralph E.	
			Group Art Unit	2862	
			Examiner Name	Unknown	
Sheet	2	of	2	Attorney Docket Number	GEMS8081.187

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
B		KREUTZER ET AL., "1H-nuclear magnetic resonance deoxymyoglobin signal as indicator of intracellular oxygenation in myocardium," <i>Am J Physiol.</i> (1991), p. H2091-97, 0363-6135/91.	
		KREUTZER ET AL., "Observing the Deoxy Hemoglobin Signal in Human Muscle as an Index of Vascular pO ₂ ," <i>Proc. Int. Soc. Magn. Reson. Med.</i> 77 (1998).	
		LUKIN ET AL., "Quaternary structure of hemoglobin in solution," <i>PNAS</i> (2003), p. 517-520, vol. 100, no. 2, available at www.pnas.org/cgi/doi/10.1073/pnas.232715799 .	
		MIHAILESCU ET AL., "A signature of the T → R transition in human hemoglobin," <i>PNAS</i> (2001), p. 3773-3777, vol. 98, no. 7, available at www.pnas.org/cgi/doi/10.1073/pnas.071493598 .	
		MOLE ET AL., "Myoglobin desaturation with exercise intensity in human gastrocnemius muscle," <i>Am J Physiol.</i> (1999), p. R173-80, 0363-6119/99.	
		SIMPLACEANU ET AL., "Chain-Selective Isotopic Labeling for NMR Studies of Large Multimeric Proteins: Application to Hemoglobin," <i>Biophysical Journal</i> (2000), p. 1146-1154, Vol. 79(2).	
		TRAN ET AL., "Comparative analysis of NMR and NIRS measurements of intracellular PO ₂ in human skeletal muscle," <i>Am J Physiol</i> (1999), p. R1682-1690, 0363-6119/99.	
		TRAN ET AL., "Spatial distribution of deoxymyoglobin in human muscle: an index of local tissue oxygenation," <i>NMR Biomed.</i> (1999;12:26-30), John Wiley & Sons, Ltd.	
		ZHOU ET AL., "Amide Proton Transfer Contrast for Imaging of Brain Tumors," <i>Proc. ISMRM</i> 11 (2003), p. 42.	
B		ZHOU ET AL., "Using the amide proton signals of intracellular proteins and peptides to detect pH effects in MRI," <i>Nature Medicine</i> (2003), p. 1085-90, vol. 9, no. 8.	

Examiner Signature		Date Considered	3/24/05
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